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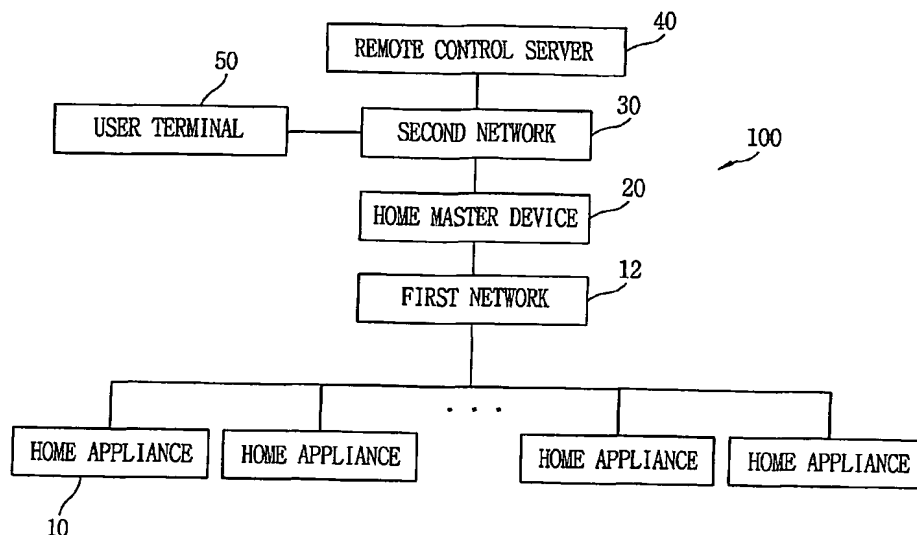
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(54) Title: HOME NETWORK SYSTEM



(57) Abstract: The present invention discloses a home network system (100) which can achieve communication between a home master device (20) and a remote control server (40) by using a predetermined message structure. The home network system (100) includes a home master device (20) connected to a plurality of home appliances (10), and a remote control server (40) connected to the home master device (20) through a first network (12), for transmitting/receiving a message between a user terminal (50) and the home master device (20). The message transmitted/received between the home master device (20) and the remote control server (40) includes at least a product code unit of the corresponding home appliance (10), a message code unit for notifying a transmission/reception direction of the message, parameter units under the definition of the message, and a number unit of parameters.



GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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## INTERNATIONAL SEARCH REPORT

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC<sup>8</sup>: **H04L 12/28** (2006.01); **G06F 15/16** (2006.01)

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC<sup>8</sup>: G06F, H04LDocumentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
----Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
WPI, EPODOC, TXTDE, TXTEN, INSPEC, IEE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Koon-Seok Lee, Hoan-Jong Choi, Chang-Ho Kim, Seung-Myun Baek: 'A new control protocol for home appliances-LnCP'. In: International Symposium on Industrial Electronics, 2001. Proceedings. ISIE 2001. 12-16. June 2001. Pages: 286-291, Volume 1. <i>the whole document, especially pages 290-291</i> --	1-39
A	Koon-Seok Lee, Kyung Chang Lee, Suk Lee, Ki-Tae Ohn, Seung-Myun Baek: 'Network configuration technique for home appliances based on LncP'. In: IEEE Transactions on Consumer Electronics, IEEE Service Center, New York. May 2003. Pages: 367-374, Volume 49, Issue 2. <i>the whole document, especially pages 369-371</i> --	1-39

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2003/0088703 A1 (KIM) 8 May 2003 (08.05.2003) <i>abstract, figures 1, 4-5, description of figures, claims 1-2, 4-10, 12-14</i> --	1
A	US 2003/0074460 A1 (SOEMO ET AL.) 17 April 2003 (17.04.2003) <i>abstract, figures 2-20, description of figures</i> --	1
A	EP 1 265 405 A1 (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.) 11 July 2002 (11.07.2002) <i>abstract, figure 4, description of figure</i> ----	1

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report			Publication date	Patent family member(s)			Publication date
A				none			
EP	A1	1265405	2002-12-11	US	A1	2003037166	2003-02-20
				WO	A1	02054682	2002-07-11
				CN	A	1437814	2003-08-20
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US A 20030074460				none			